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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/685,582	10/16/2003	Christopher Townsend	2365-117	7161
6449	7590	11/09/2006	EXAMINER	
ROTHWELL, FIGG, ERNST & MANBECK, P.C. 1425 K STREET, N.W. SUITE 800 WASHINGTON, DC 20005			KOSTAK, VICTOR R	
		ART UNIT	PAPER NUMBER	
			2622	

DATE MAILED: 11/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/685,582	TOWNSEND ET AL.	
	Examiner	Art Unit	
	Victor R. Kostak	2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 1-21 is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 16 October 2003 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 9/21/04 & 10/16/03.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) Notice of Informal Patent Application
- 6) Other: ____.

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 2 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chaney (5,473,609 cited by applicant).

Fig. 1 of Chaney shows the transmitter side of a conventional digital TV signal transmission system. As shown, the transmitter comprises plural transmitting units (TRANSMIT #1 to TRANSMIT #N). Each of the transmitting units produce a single carrier signals (channel) having a plurality of digital TV broadcast services multiplexed therein (in the same manner as acknowledged by applicant as being known: lines 20-30 of his specification). All of the transmitting units are controlled by a single common SCHEDULER (as shown in Fig. 1). Fig. 2 shows details of a transmitting unit, which includes plural studios (STUDIO #1 – STUDIO #K), each which generates a TV data stream representing television programming. The SCHEDULER comprises circuitry for generating the control data required to implement the conditional access feature of the TV system (as shown in Fig. 2); a MASTER PROGRAM GUIDE stage which, under the control of the SCHEDULER, generates data representing a master electronic program guide (EPG); an optional SPECIAL PROGRAM GUIDE for generating one or more optional special electronic program guides (EPGs), also controlled by the SCHEDULER; a multiplexer (MUX) as shown, for multiplexing the studio data with the EPGs into a single TDM multiplexed stream; and a modulator (MODULATE) which in turn modulates

the multiplexed composite stream onto a single carrier (channel) for transmitting via one of the plural transponders of a satellite (Figs. 1, 2).

It is noted that digital TV signal transmission formatting and broadcast system and technology was both known and “imminent” (lines 17-32 on page 2 and lines 1-5 on page 3 of the instant specification); and the known digital TV transmission format was a frequency and time division multiplexed format which carries digital data representing the various TV programming components, but which also carries data for other customer services such as “TV listings” (EPGs; noting again lines 25-32 on page 2 and lines 1-5 on page 3 of the specification).

It is also noted that the MASTER PROGRAM GUIDE comprises data that represents brief program listings for all of the channels; and was continuously transmitted as common “information data” within each of the channels (col. 5 lines 1-15 of Chaney). Therefore, the MASTER PROGRAM GUIDE data so described by Chaney not only comprises the “information data” recited in applicant’s claim 1, but also includes the specific structure and content that is recited in claim 2.

Figs. 4 and 5 of Chaney show the receiver station for receiving the signals transmitted by the transmitting station. The receiving station includes antenna 5 and tuner/demodulator 6 for receiving and selecting one of the plural receivable channels which go through a decoding process carried out by the arrangement of elements 8, 17 and 22. The decoder operates on the selected channel for separating the information representing the master program guide from the compressed composite A/V data of the program that is to be viewed on the TV screen. More specifically, the master program guide “information data” is retained within buffer memory 15, whereas A/V data simultaneously passes on from the memory for further

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decompression/decoding processing (col. 8 lines 46-50 and 55-68; col. 9 lines 1-4 and 46-57; col. 11 lines 34-39 and lines 63-66).

The buffer memory stores/retains the master program guide information (col. 8 lines 55-61).

A viewable operator control device comprising an input device that controls the cursor that is used to select the master program guide information to be displayed on the screen of the receiver (e.g. col. 11 lines 35-40 and 63-65; input device 16 shown in Fig. 4).

Signal processing arrangement comprising elements 17, 19 and 22 functions in response to the cursor selection of the master program guide information, to select and display the stored information obtained from memory 15 on the receiver screen.

Although not explicitly recited by Chaney, this master program guide is *at least* obvious to be displayed as an OSD overlay whenever the master program guide is selected for display during reception/decoding processing of the composite channel data (i.e. the A/V programming). Col. 9 lines 55-58 implies the fact that OSD display of “special” program guide differs from other OSD data (e.g. the master program guide data) by the fact that it is not overlaid over received video programming. The reason for this difference is due to the fact that the processing of the “special” program guide data occupies so much of the receiver’s available processing power that reception of the video signal has to be halted to receive/process the “special” program guide information. In contrast, the available processing power of the receiver is sufficient to simultaneously process and display the master program guide information and the video signals thereby allowing, at least obviously, the master program guide information to be overlaid over

the video component of the received A/V programming (col. 1 lines 63-67; col. 8 lines 46-50; col. 9 lines 1-4 and 46-57; col. 11 lines 34-39 and 63-66; and col. 12 lines 9-19).

Regarding claim 16, storage of the master program guide is periodically updated (col. 5 lines 9-10).

2. Claims 1, 2 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chaney (5,473,609) in view of Reiter (4,751,578 cited by applicant) or Young (5,353,121 cited by applicant).

As discussed above, Chaney discloses a transmitter/receiver system for communicating A/V programming and auxiliary information. As was also discussed above, claims 1 and 2 differ from Chaney in that Chaney does not explicitly state that the master program guide information is overlaid on the displayed video signal. However, as explained above, it would nonetheless have been obvious to one of ordinary skill in the art for the reasons given above.

To corroborate the benefit thereof, Reiter is presented to show that it would have been desirable and therefore obvious to provide TV receivers with the capability to display program guide information overlaid on displayed video program (col. 1 lines 14-20). In view of this explicit teaching, it would therefore have been obvious to one of ordinary skill in the art to provide such an overlay feature in Chaney, for the clear benefit of providing the user with simultaneously presented information, as an assist to make programming decisions.

Likewise, Young teaches that it is desirable to overlay program guide information on video programming (col. 23 lines 35-50). In view of this explicit teaching, it would therefore have been obvious to one of ordinary skill in the art to provide such an overlay feature in

Chaney, for the clear benefit of providing the user with simultaneously presented information, as an assist to make programming decisions.

3. Claims 3-8, 13, 14, 15, 17-19 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chaney (5,473,609) in view Young (5,353,121 cited by applicant).

Regarding claim 3 which recites that the “processor” of the receiver can respond to further viewer manipulations of the control device to cause the overlaid information to be varied, it would have been obvious to move the program guide data (at least) in a scrolling manner as taught by Young, since the volume of displayable program guide data that describes the plural display set-ups of the multiple A/V programs (i.e. times, channels,) is available throughout an extended passage of time. It therefore would be required to update the program guide data and obvious to allow user manipulation of the guide data (e.g. the scrolling option), as taught by Young (col. 23 lines 35-50), in the system of Chaney, who provides such a multitude of guide data per plural channels (e.g. col. 1 lines 28-32; col. 4 lines 24-35; col. 6 lines 10-17).

As for claims 4 and 5, the master program guide information described in Chaney provides schedule information pertaining to many channels, over predetermined range of hours (e.g. col. 1 lines 28-32; col. 4 lines 24-35). As such, the scrolling of the master guide clearly includes selective display of (1) information pertaining to currently received A/V programming on that channel; (2) information pertaining to programming that can be received at some later time than the current time by the same channel; (3) information pertaining to programming currently received on other channels; and (4) information pertaining to programming that can be received at some later time from other channels.

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As noted previously, Chaney not only operates to continuously receive the master program guide data (e.g. col. 5 lines 8-15) but also to occasionally receive one or more of the other more detailed or comprehensive “special” program guide data (e.g. col. 5 lines 15-30). Claim 6 differs from Chaney in that Chaney does not describe specific overlaying of the special program guide over the received video program , and further indicates that his receiver is unable to provide such an overlay given its limited processing power. However, Chaney recognizes that the limited processing power was a design choice driven by cost considerations (col. 8 lines 51-53; col. 9 lines 2-4), which is an express suggestion that overlaying such special guide data can in fact be carried out when such considerations are not applied.

As for claim 7, the data would be accessed from the memory by the viewer, and accordingly processed for eventual presentation.

Regarding claim 8, Chaney does not describe the usages of the program guides beyond the typical informing of current or upcoming broadcasts, it would have been obvious to provide alternative information useful in the presentation of programming, such as to program the operation of the receiver to tune in (or record) programming in response to data of the program guide being manipulated by the user, such providing a ready convenience, and as disclosed by Young.

As for claim 13, note col. 6 lines 33-44 and col. 11 lines 35-40 of Chaney.

The subject matter recited in claim 14 is covered in full in col. 8 lines 32-37 of Chaney.

As for claim 15, the examiner takes Official notice that it was well known at the time of filing to have carried addressable messages as part of the services made available by digital (as well as analog) broadcasters (i.e. local, regional, and national alerts). It would have been

obvious (if not required by law) to have been offered as part of the Chaney broadcasting network.

As for claims 17-19, Chaney discloses throughout his disclosure that his receiver is controlled by a software driven CPU, which therefore makes the receiver capable of being updated or otherwise modified (e.g. col. 11 lines 14-24). Therefore, it would have been obvious to use any suitable software equipment, such as well known CD ROMs, which were well known and readily available upgrade components at the time of filing.

As for claim 20, the user interface device 16 can be a remote control (col. 11 lines 24-32).

As for claims 21, the output element in Fig. 4 is connected to an A/V presentation device (not shown), which is integral with a television receiver.

4. Claims 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chaney (5,473,609) in view Young (5,353,121 cited by applicant), and in further view of Lawler (5,907,323) and/or Marshall (5,523,796), both also cited by applicant.

Although Chaney does not describe the inclusion of video clips as part of the program guide data, it would have been obvious to one of ordinary skill in the art to provide such an option, as taught by both Lawler and Marshall, for the benefit of enabling the viewer to preview available programming, of course under the user's control. Such preview data is in fact actual program data which is typically transmitted in MPEG format and stored for disassembly at the receiver for reproducing the video.

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5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

6. This is a continuation of applicant's earlier Application No. 10/013,683. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor R. Kostak whose telephone number is (571) 272-7348. The examiner can normally be reached on Monday - Friday from 6:30am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David W. Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any response to this final action should be mailed to:

Box AF
Commissioner of Patents and Trademarks
P.O. Box 1450
Alexandria, Virginia 22313-1450

Or faxed to:

(571) 273-8300

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service Office whose telephone number is (703) 308-HELP.

[Signature]
Victor R. Kostak
Primary Examiner
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VRK